INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/011238

A. CLASSIFIC Int.Cl ⁷	ATION OF SUBJECT MATTER B21K1/32, B21J5/00, 5/02, 5/1	10, B22C9/06, B60B3/02		
According to Int	ernational Patent Classification (IPC) or to both nationa	al classification and IPC		
B. FIELDS SE	ARCHED			
Minimum docum	nentation searched (classification system followed by classification syste	assification symbols) B21K1/00-31/00, B22C9/	06,	
Jitsuyo Kokai Ji	tsuyo Shinan Koho 1971-2004 To	tsuyo Shinan Toroku Koho oroku Jitsuyo Shinan Koho	1996-2004 1994-2004	
Electronic data b	ase consulted during the international search (name of o	data base and, where practicable, search te	rms used)	
C. DOCUMEN	ITS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap		Relevant to claim No.	
A	JP 2001-150089 A (Washi Kosa 05 June, 2001 (05.06.01), Claims; Figs. 1 to 16 & WO 01/39909 A1	n Co., Ltd.),	1-5	
A	JP 60-127040 A (Kobe Steel, 06 July, 1985 (06.07.85), Claims; Figs. 1 to 2 (Family: none)	Ltd.),	1-5	
A	JP 6-285575 A (Sumitomo Meta Ltd.), 11 October, 1994 (11.10.94), Claims; Figs. 1 to 4 (Family: none)	l Industries,	1-5	
Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international "E" later document published after the international filing date or pudate and not in conflict with the application but cited to understance the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot		ation but cited to understand nvention		
	hich may throw doubts on priority claim(s) or which is	considered novel or cannot be consi- step when the document is taken alone		
special reaso	ablish the publication date of another citation or other on (as specified)	"Y" document of particular relevance; the considered to involve an inventive combined with one or more other such	step when the document is	
"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed		being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 11. November, 2004 (11.11.04)		Date of mailing of the international sear 16 November, 2004		
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No.		Telephone No.		

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). DOCUMENTS CONSIDERED TO BE RELEVANT		D
Category*	Citation of document, with indication, where appropriate, of the relevant passages JP 8-164438 A (Sumitomo Metal Industries, Ltd.), 25 June, 1996 (25.06.96), Claims; Figs. 1 to 2 (Family: none)		Relevant to claim No.
A .			
A	JP 39-9301 B1 (Rainoids Metals Co.), 02 June, 1964 (02.06.64), Claims; Figs. 1 to 75 (Family: none)		1-5
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